

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT:
 - (A) NAME: CpG ImmunoPharmaceuticals GmbH
 - (B) STREET: c/o QIAGEN GmbH, Max-Volmer-Str. 4
 - (C) CITY: Hilden
 - (D) STATE: none
 - (E) COUNTRY: Germany
 - (F) POSTAL CODE (ZIP) 40724
- (ii) TITLE OF INVENTION: G-motif Oligonucleotides and Uses therof

1

- (iii) NUMBER OF SEQUENCES: 42
- (iv) COMPUTER READABLE FORM
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
- (2) INFORMATION FOR SEC ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "oligonucleotide"
 - (iii) HYPOTHETICAL: YES
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CTCCTAGCGG GGGCGTCCTA T

21

- (2) INFORMATION FOR SEQ ID NO: 2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "cligonucleotide"
 - (iii) HYPOTHETICAL: YES
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

CTCCTAGTGG GGGTGTCCTA T

23



(2) INFO	RMATION FOR SEQ ID NO: 3:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOFOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(iii)	HYPOTHETICAL: YES	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
CTCCTATT	GG GGGTTTCCTA T	21
(2) INFO	RMATION FOR SEQ ID NO: 4:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(iii)	HYPOTHETICAL: YES	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
CTCCTATT	GG GGTTTTCCTA T	21
(2) INFO	RMATION FOR SEQ ID NO: 5:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	•
(iii)	HYPOTHETICAL: YES	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
CTCCTATT	PGG GTGTTTCCTA T	2

(2) INFORMATION FOR SEQ ID NO: 6:



-	

	(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (L) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(i	.ii)	HYFOTHETICAL: YES	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
CTECI	'ATTC	GT GGGTTTCCTA T	21
(2) I	NFOE	RMATION FOR SEQ ID NO: 7:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
((ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = 'oligonucleotide'	
()	iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 7:	
CTCC:	TATT	TG GGGTTTCCTA T	21
(2)	INFO:	RMATION FOR SEQ ID NO: 8:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
{ .	iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 8:	
CTCC'	TATT	GA GGGTTTCCTA T	21
(2)	INFO	RMATICN FOR SEQ ID NO: 9:	
1 ~ 1		SEQUENCE CHARACTERISTICS:	
	1 1	(A) LENGTH: 21 base pairs	



21



60	
14217	4

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLCGY: linear	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTEETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:	
CTCCTATTGC GGGTTTCCTA T	21
(2) INFORMATION FOR SEQ ID NO: 10:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 21 base pairs(B) TYPE: nucleic acid(C) STRANDEDMESS: single(D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:	
CTCCTATTGG GAGTTTCCTA T	21
(2) INFORMATION FOR SEQ ID NO: 11:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:	
CTCCTAGGGG GGGGGTCCTA T	21

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear







<pre>(ii) MOLECULE TYPE: other nucleic soid (A) DESCRIPTION: /desc = foligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID ND: 12:	
ННИНИНИМОС GGGHHHHHHH H	21
(2) INFORMATION FOR SEQ ID NO: 13:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "pligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID MO: 13:	
СЭССОННИН НИНИНИНИН Н	21
(2) INFORMATION FOR SEQ ID NO: 14:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = 'cligonuclectide'</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:	
НЕННИНЕНИЕ НИНИНWGGGG G	21

- (2) INFORMATION FOR SEQ ID NO: 15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid



	(A) DESCRIPTION: /desc = "oligonucleotide"	
(iii)	HYPOTHETICAL: YES	
(x1)	SEQUENCE DESCRIPTION: SEQ ID NO: 15:	
		17
(2) INFOR	MATION FOR SEQ ID NO: 16:	
(±)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(iii)	HYPOTHETICAL: YES	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 16:	
HEHWGGGGG	эк нин	13
(2) INFOR	RMATION FOR SEQ ID NO: 17:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCEIPTION: /desc = "bligonucleotide"	
(iii)	HYPOTHETICAL: YES	
(x i)	SEQUENCE DESCRIPTION: SEQ ID NO: 17:	
TTGGAGGGG	GG TGGTGGGG	18
(2) INFOF	RMATION FOR SEQ ID NO: 18:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE nucleic acid (C) STRAMDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
11.11	עעמתדעמדוראן . עדק	



|--|

(xi) Si	EQUENCE DESCRIPTION: SEQ ID NO: 18:	
AGCGGGGGGG	AGCGGGGGGCG	20
(2) INFORM	ATION FOR SEQ ID NO: 19:	
·	EQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	OLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(iii) H	YPOTHETICAL: YES	
(xi) S	EQUENCE DESCRIPTION: SEQ ID NO: 19:	
TCGATCGGGG	CGGGGCGAGC	20
מרבייד (פו	MATION FOR SEQ ID NO: 20:	
	EQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	OLECULE TYPE:.other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(ili) H	YPOTHETICAL: YES	
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO: 20:	
CTCCTAGTGG	TIGIGICIA T	2:
(2) INFORM	ATION FOR SEQ ID NO: 21	
	EEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) :	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(iːi) :	HYPOTHETICAL: YES	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:



V

CTCCTAGTTG ITITGTCCTA T	21
(2) INFORMATION FOR SEQ ID NO: 22:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear 	
<pre>(ii) MOLECULE TYPE other nucleic acid (A) DESCRIPTION: /desc = "oligonuclectide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:	
GGGGGGGGG GGGGGGGGGG G	21
(2) INFORMATION FOR SEQ ID NO: 23:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE nucleic acid (C) STRANDEDMESS: single (D) TOPOLOGY: linear	
<pre>(ii) MCLECULE TYPE other nucleic acid (A) DESCRIFTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:	
CTCCTATTGG TGGTTTCCTA T	21
(2) INFORMATION FOR SEQ ID NO: 24:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:	
CTCCTATIGG GTTTTTCCTA T	21





(2) INFORMATION FOR SEQ ID NO: 25:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear	
<pre>(ii) MOLECULE TYPE other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:	
CTCCTATTGG TGTTTCCTA T	21
(2) INFORMATION FOR SEQ ID NO: 26:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear	
<pre>(ii) MOLECULE TYPE. other nucleic acid (A) DESCRIPTION: /desc = "cligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:	
CTCCTATTGT GGTTTTCCTA T	21
(2) INFORMATION FOR SEQ ID NO: 27:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 21 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:	
CTCCTATTIG GGTTTTCCTA T	21

(2) INFORMATION FOR SEQ ID NO: 28:





	(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOSY: linear	
	(1i)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
((iii)	HYFOTHETICAL: YES	
	(×i)	SEQUENCE DESCRIPTION: SEQ ID NO: 28:	
CTCC	CTATTO	GG TTGTTTCCTA T	21
(2)	INFO	RMATION FOR SEQ ID No: 29:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (E) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear	
	(ii)	MOLECULE TYPE other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
ļ	(i:i)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 29:	
CTC	TATT	GT GTGTTTCCTA T.	21
(2)	INFO	RMATION FOR SEQ ID NO: 30:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonuclectide"	
	(iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 30:	
CTC	TATT	TG GTGTTTCCTA T	21
(2)	CENI	RMATION FOR SEQ ID NO: 31:	
	(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs	

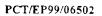






4	

		(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MCLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonuclectide"	
(:	iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 31:	
CTCC	TATTO	ST TGGTTTCCTA T	21
(2)	INFO	RMATION FOR SEQ ID NO: 32:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCFIPTION: /desc = "oligonucleotide"	
(.	iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 32:	
CTCC	TATTI	TG TGGTTTCCTA T	21
(2)	INFOR	WATION FOR SEC ID NO: 33:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acidg (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MCLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
{.	iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 33:	
CTCC'	TATTI	TT GGGTTTCCTA T	21
(2)	INFO	RMATION FOR SEQ ID NO: 34:	
	(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	









(i	<pre>i) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "cligonucleotide"</pre>	
(ii	i) HYPOTHETICAL: YES	
(x	i) SEQUENCE DESCRIPTION: SEQ ID NO: 34:	
CTCCTA	TITT TTTTTCCTA T	21
(2) IN	FORMATION FOR SEQ ID NO: 35:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
į)	i) MOLECULE TYPE: other nucleic acid(A) DESCFIPTION: /desc = "oligonucleotide"	
(ii	i) HYPOTHETICAL: YES	
(x	i) SEQUENCE DESCRIPTION: SEQ ID NO: 35:	
CTCCTA	TTGG GCGTTTCCTA T	21
(2) IN	FORMATION FCF SEQ ID NC: 36:	
,	 i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPCLOGY: linear 	
(i	i) MOLECULE TYPE other nucleic acid(A) DESCRIPTION: /desc = "oligonucleotide"	
(ii	i) HYPOTHETICAL: YES	
(x	i) SEQUENCE DESCRIPTION: SEQ ID NO: 36:	
CTCCGG	GGGG GGGGGGCTA T	21
/2\ T	DODUNATON NEE ARN ER NO 22	
(2) 10	FORMATION FOR SEQ ID NO: 37:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(i	i) MOLECULE TYPE: other nucleic acid	
	(A) DESCRIPTION: /desc = "oligonucleotide"	





	(iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 37:	
CTG	GGGGG	33 G3GGGGGGA T	21
(2)	INFO	RMATION FOR SEQ ID NO: 38:	
	(±)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(±±)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
ı	(iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 38:	
AAA	AGGGAJ	AG GGATGGCT	18
(2)	INFO	RMATION FOR SEQ ID NO: 39:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY. linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
	(i:i)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION SEQ ID NO: 39:	
GGAG	GCCGG.	AG GOGGAGGCGG AGGC	24
(2)	INFO	RMATION FOR SEQ ID NO. 40:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(i1)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
	(iii)	HYPOTHETICAL: YES	





PCT/EP99/06502

14

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:	
TCCATGACGT TCCTGATGCT	2.5
(2) INFORMATION FOR SEQ ID NO: 41:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE other nucleic acid</pre>	
(ili) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEO ID NO: 41:	
•	
ATATAAGGGA AACTICCAGC	20
•	20
•	20
ATATAAGGGA AATTTCCAGC	20
ATATAAGGGA AATTTCCAGC (2) INFORMATION FOR SEQ ID NO: 42: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	20
ATATAAGGGA AATTTCCAGC (2) INFORMATION FOR SEQ ID NO: 42: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear (ii) MOLECULE TYPE: other nucleic acid	20
ATATAAGGGA AATTTCCAGC (2) INFORMATION FOR SEQ ID NO: 42: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	20